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Figure 2

Figure 3

Scheme 3 Synthesis of C-6 Substituted Indoles

Figure 4

Figure 5

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Figure 9

Figure 10

Scheme 11 Synthesis of C-6, C-7 and C-8 Trisubstittued 3-Amino-2-Naphthoic Acids

Figure 11

Figure 12

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Figure 15

rigure 16

Figure 18

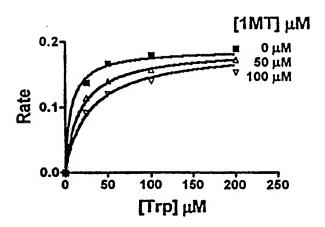


Fig. 19A

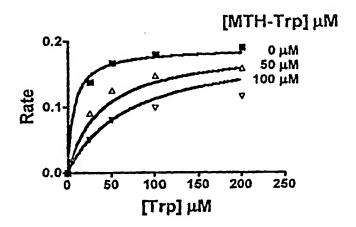


Fig. 19B

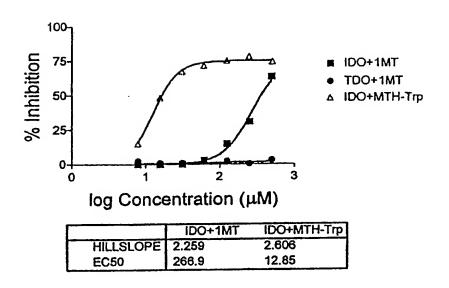


Figure 20

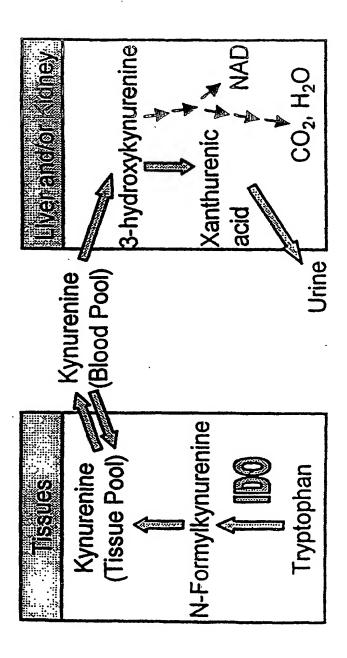


Figure 21

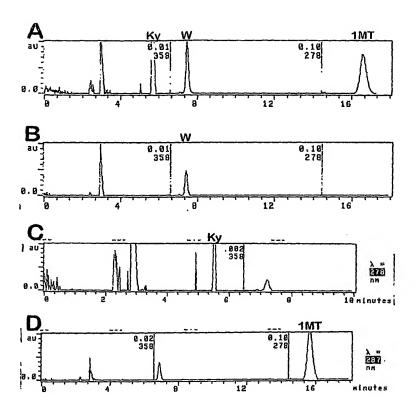
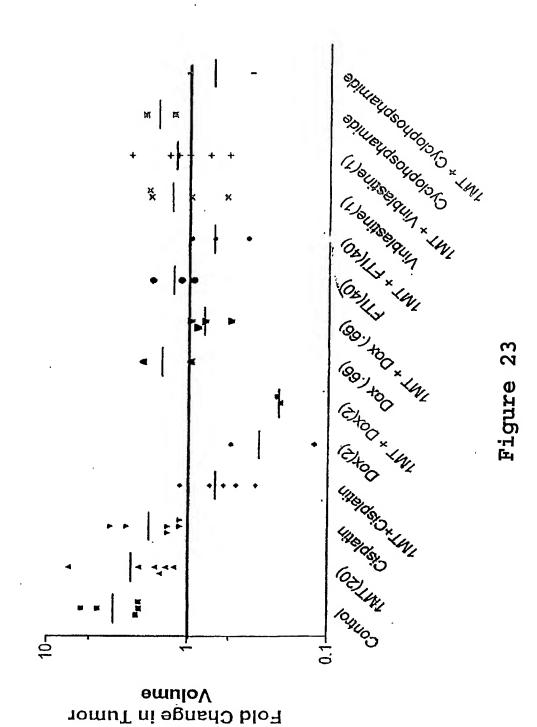


Figure 22



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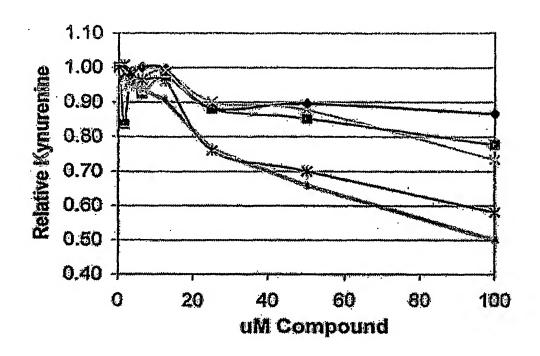


Figure 24

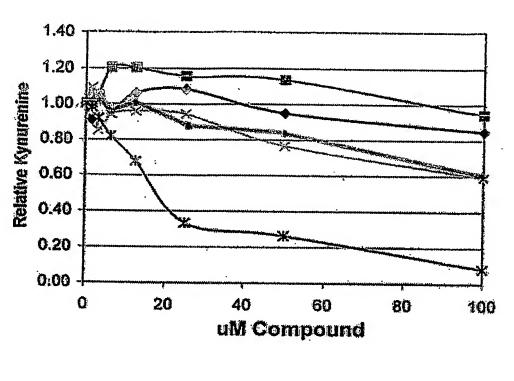


Figure 25A

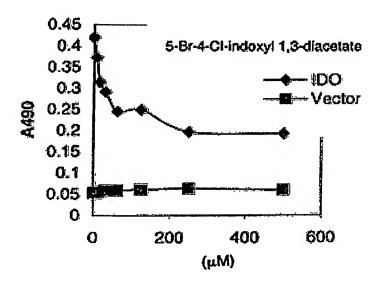


Figure 25B

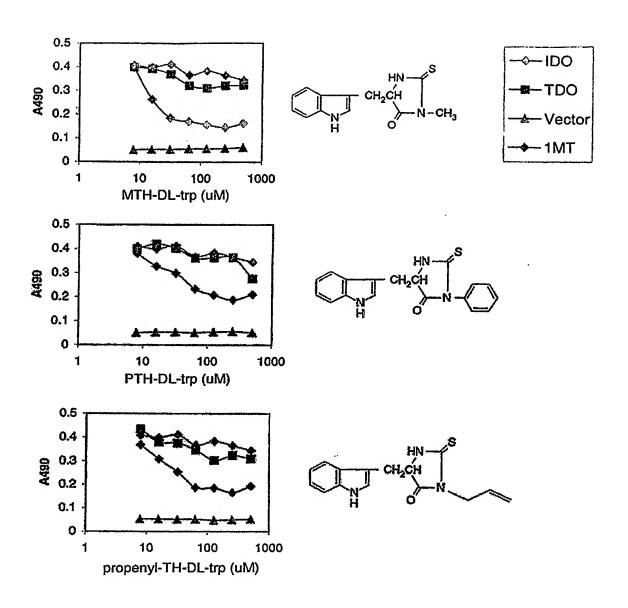


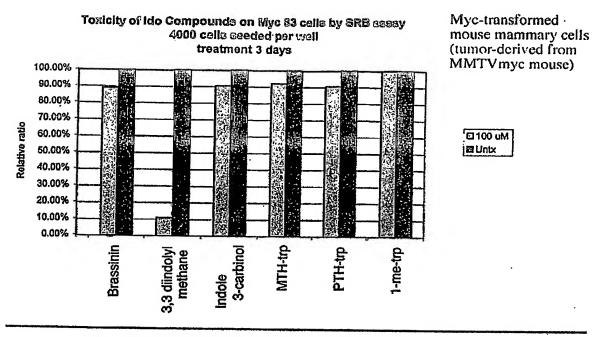
Figure 26

Compound name	Structure	IDO inhibition @ 250 µM	TDO inhibition @ 250 µM	Ratio IDO:TDO inhibition
1-DL-Methyl- Tryptophan	ОН, ОП СН, СН - С - ОН	25.32%	4.74%	5.34
9-Vinylcarbazole	CH=CH <sub>2</sub>	22.94%	19.33%	1.19
Acemetacin	C1,0 C1,	30.25%	N.D.	N.D.
5-Bromo-DL- tryptophan	8r CH - C - OH	31.49%	18.05%	1.74
Acemetacin	O1,0 C1, -C-O01, -C-OH	32.65%	12.44%	2.62
5-Bromoindoxyl diacetate	81 - CH,	<b>69.72%</b>	N.D.	N.D.

## Thiohydantoin (TH) derivatives of indoleamine

phenyl-TH- DL-trp (PTH-trp)	CH <sub>2</sub> CH CH <sub>2</sub> CH	56.95%	17.83%	3.19
propenyl-TH- DL-trp (propTH-trp)		62.72%	25,17%	2.49
methyl-TH- DL-trp (MTH-trp)	HN CH <sub>2</sub> CH NCH <sub>3</sub>	68.40%	27.05%	2.63

Figure 27



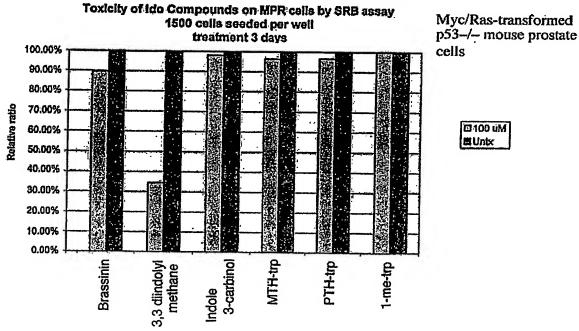


Figure 28

